

Worksheet

1. Class : **Grade 8** Subject: **Science** Relevant week : **4th week of November**

2. Unit : **14** Phenomena and exploration associated with the solar system

3. Tasks to be done by the student:

I. Plan a practical in a dark room to demonstrate solar eclipse and lunar eclipse.(

Choose a light source for sun and two balls to represent the earth and moon)

II. Construct an instrument to measure the altitude to a star or a planet by using straws and protractor.

III. Explain the seasonal changes by using a structure of earth and light source for sun.

IV. If you ever saw a meteor fall, describe your experience.

4. The books, websites, LMS lessons and other quality inputs (online, offline, printed) that can be refer for above activities are :

I. e -nenapiyasa:

- <https://www.enenapiyasa.lk/lms/mod/page/view.php?id=18368>

II. Youtube:

- <https://youtu.be/Mxllktyx-bk>

III. E- thaksalawa

- <https://www.ethaksalawa.moe.gov.lk/moodle/course/view.php?id=123&lang=si>

5. The learning outcomes that should be gain from the lessons relevant to this week :

I. Use models to demonstrate lunar and solar eclipses.

II. Describe occurrence of lunar and solar eclipses using ray diagrams.

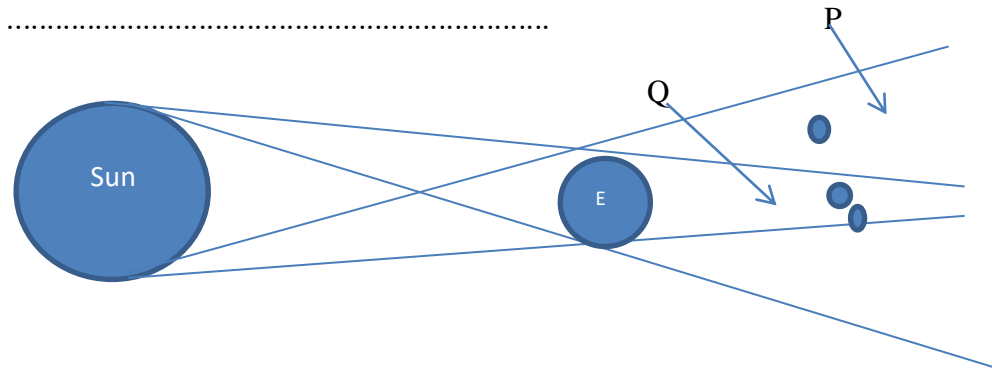
III. State that selected twelve constellations in the path of the apparent motion of earth is termed the zodiac.

6. Evaluation / Assessment Methodology:

1. Fill the following table based on eclipses

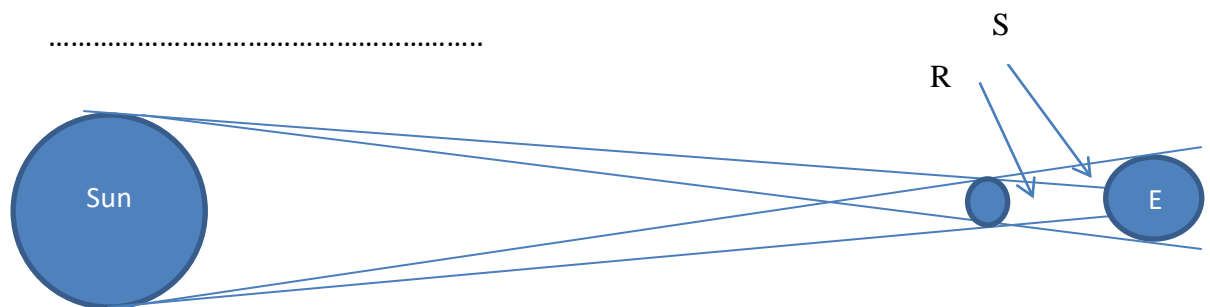
| Type of eclipse | Solar eclipse | Lunar eclipse |
|---|---------------|---------------|
| How sun, moon and earth located | | |
| Day of occurrence | | |
| The maximum time duration it can be observed at a given place | | |

2. Name P, Q, R, S regions in the given diagrams and name the type of eclipse



P-

Q-



R -

S -

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